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Appln. Series No: 09/706,382

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Title: Apparatus and Methods for the Treatment of Presbyopia using Fiber-coupled Lasers

AMENDMENT A (submitted on June 7, 2001)

by J.T. Lin 6/7/01

Examiner: David Burd/3739

Assistant Commissioner for Patent
Patent Office, DC

Fed. Exp. No.

8287 0792 8197

Dear Sir:

In response to your Office Action mailed on 04/12/01, please find Amendment below.

(I) Version of replacements:

CLAIMS:

- Sub 28
1. A method, adaptable for performing presbyopic correction in which a portion of the corneal sclera tissue is removed by steps of:
 - (a) selecting a laser beam having a predetermined wavelength;
 - (b) selecting a beam spot controller mechanism, said beam spot controller to reduce and focus said laser beam to a fiber delivery unit;
 - (c) controlling the said fiber delivery unit to deliver said laser beam in a said predetermined pattern onto a plurality of positions on the corneal surface to remove portion of the sclera tissue outside the limbus area, whereby a presbyopic patient's vision is corrected to see near by increasing the accommodation of the corneal lens.
 2. A method of claim 1, wherein said laser beam is an ultraviolet laser having a wavelength range of about (0.15 - 0.36) microns and a pulse duration less than about 200 nanoseconds.
 3. A method of claim 1, wherein said laser beam is an infrared laser having a wavelength range of about (1.4 - 3.2) microns.
 4. A method of claim 3, wherein infrared laser is an optically pumped Erbium:YAG laser having a wavelength of about 2.9 microns.
 5. A method of claim 1, wherein said laser beam is an ArF excimer laser having a wavelength of 193 nm.
 6. A method of claim 1, wherein said laser beam is a XeCl excimer laser having a wavelength of 308 nm.
 7. A method of claim 1, wherein said laser beam is a solid state diode laser having a wavelength range of about (0.95 - 2.1) microns with a power higher than 2 Watt and focused to a spot size

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